

Nov 23 14:57

us-08-913-430-1.mli

1

GenCore version 4.5  
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OM nucleic - nucleic search, using ew model

Run on: November 19, 1999, 23:20:33 ; Search time 29.19 Seconds

(without alignments)  
6455.963 Million cell updates/sec

Title: US-08-913-430-1

Perfect score: 1782

Sequence: 1 atgaaaaaatgccactata.....ttgataactcgtatgctaa 1782

Scoring table: IDENTITY\_NUC

Searched: 195662 seqs, 52875861 residues

Database : Issued\_Patents\_NA.\*

- 1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/5C\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/5D\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PCTUS9\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	77.4	4.3	1511	1	US-07-991-867B-8	Sequence 8, Appl
2	77.4	4.3	1511	2	US-08-107-755A-8	Sequence 8, Appl
3	77.4	4.3	1511	4	US-08-544-332-8	Sequence 8, Appl
4	75	4.2	5852	1	US-07-867-106-2	Sequence 2, Appl
5	74.4	4.2	8920	3	US-08-446-855A-1	Sequence 1, Appl
6	72.6	4.1	6243	4	US-09-056-075-1	Sequence 1, Appl
7	71	4.0	731	2	US-08-451-405A-2	Sequence 2, Appl
8	69.2	3.9	1939	1	US-07-715-751B-2	Sequence 1, Appl
9	68.2	3.8	731	2	US-08-451-405A-2	Sequence 2, Appl
10	66	3.7	660	1	US-07-991-867B-32	Sequence 32, Appl
11	66	3.7	660	2	US-08-107-755A-32	Sequence 32, Appl
12	66	3.7	660	4	US-08-544-332-32	Sequence 32, Appl
13	64.6	3.6	6243	4	US-09-056-075-1	Sequence 1, Appl
14	64.4	3.6	5852	1	US-07-867-106-2	Sequence 2, Appl
15	63	3.5	8457	1	US-07-991-867B-1	Sequence 1, Appl
16	63	3.5	1395	1	US-07-991-867B-25	Sequence 25, Appl
17	63	3.5	6768	2	US-08-107-755A-1	Sequence 1, Appl
18	63	3.5	1395	2	US-08-107-755A-25	Sequence 25, Appl
19	63	3.5	8457	4	US-08-544-332-1	Sequence 1, Appl
20	63	3.5	1395	4	US-08-544-332-25	Sequence 25, Appl
21	62.4	3.5	1511	1	US-07-991-867B-8	Sequence 8, Appl
22	62.4	3.5	240	1	US-08-628-417-6	Sequence 6, Appl
23	62.4	3.5	1511	2	US-08-107-755A-8	Sequence 8, Appl
24	62.4	3.5	1511	4	US-08-544-332-8	Sequence 8, Appl
25	61.8	3.5	1939	1	US-07-715-751B-2	Sequence 2, Appl
26	61.8	3.5	4098	1	US-08-605-106-4	Sequence 4, Appl
27	61.6	3.5	660	1	US-07-991-867B-32	Sequence 32, Appl
28	61.6	3.5	660	2	US-08-107-755A-32	Sequence 32, Appl

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32	60.4	3.4	3138	1	US-07-867-106-4	Sequence 4, Appl
33	60.4	3.4	3618	1	US-07-872-678A-36	Sequence 36, Appl
34	60.2	3.4	2447	4	US-09-014-969-14	Sequence 14, Appl
35	60	3.4	1422	3	US-08-319-704-5	Sequence 5, Appl
36	59	3.3	1241	1	US-07-593-657-6	Sequence 6, Appl
37	58.6	3.3	8700	3	US-08-392-625-16	Sequence 16, Appl
38	58.6	3.3	8700	3	US-08-466-961A-16	Sequence 16, Appl
39	58.6	3.3	8700	4	US-08-645-193B-18	Sequence 18, Appl
40	58.4	3.3	8457	1	US-07-991-867B-1	Sequence 1, Appl
41	58.4	3.3	6768	2	US-08-107-755A-1	Sequence 1, Appl
42	58.4	3.3	8457	4	US-08-544-332-1	Sequence 1, Appl
43	58.2	3.3	4970	3	US-08-764-100-14	Sequence 14, Appl
44	58.2	3.3	4970	3	US-08-764-100-20	Sequence 20, Appl
45	58	3.3	2334	2	US-08-062-632-4	Sequence 4, Appl

## ALIGNMENTS

## RESULT 1

US-07-991-867B-8/c

; Sequence 8, Application US/07991867B

; Patent No. 5476781

; GENERAL INFORMATION:

; APPLICANT: Moyer, Richard W.

; APPLICANT: Hall, Richard L.

; APPLICANT: Gruidl, Michael E.

; TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System

; NUMBER OF SEQUENCES: 66

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: David R. Salivanchik

; STREET: 2421 N.W. 41st Street, Suite A-1

; CITY: Gainesville

; STATE: FL

; COUNTRY: USA

; ZIP: 32606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/991,867B

; FILING DATE: 12-DEC-1992

; CLASSIFICATION: 435

; APPLICATION DATA:

; APPLICATION NUMBER: NO 92/14818

; FILING DATE: 12-FEB-1992

; APPLICATION DATA:

; APPLICATION NUMBER: US 07/827,685

; FILING DATE: 30-JAN-1992

; APPLICATION DATA:

; APPLICATION NUMBER: US 07/657,584

; FILING DATE: 19-FEB-1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Salivanchik, David R.

; REGISTRATION NUMBER: 31,794

; REFERENCE/DOCKET NUMBER: UF114.C3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 904-375-8100

; TELEFAX: 904-372-5800

Nov 23 14:57

us-08-913-430-1.mi

3

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; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 1511 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: unknown
;   MOLECULE TYPE: DNA (genomic)
;   ORIGINAL SOURCE:
;     ORGANISM: Amsacta moorei entomopoxvirus
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: complement (18..218)
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: complement (234..782)
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 852..1511
;   US-07-991-867B-8

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Query Match      4.3%; Score 77.4; DB 1; Length 1511;
Best Local Similarity 49.8%; Pred. No. 9.5e-06;
Matches 341; Conservative 0; Mismatches 326; Indels 18; Gaps 5;

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4

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Db 653 ATTAATAAAAATTAATTAATTAATCAATC 629

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RESULT 2
US-08-107-755A-8/c
; Sequence 8, Application US/08107755A
; Patent No. 5721352
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: No. 5721352el Entomopoxvirus Expression System
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David R. Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: Florida
; COUNTRY: U.S.A.
; ZIP: 32606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Releasee #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/107, 755A
; FILING DATE: 19-AUG-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/827, 658
; FILING DATE: 30-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/657, 584
; FILING DATE: 19-FEB-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Saliwanchik, David R.
; REGISTRATION NUMBER: 31, 794
; REFERENCE/DOCKET NUMBER: UF114.C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (904) 375-8100
; TELEFAX: (904) 372-5800
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 1511 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: unknown
;   MOLECULE TYPE: DNA (genomic)
;   ORIGINAL SOURCE:
;     ORGANISM: Amsacta moorei entomopoxvirus
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: complement (18..218)
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: complement (234..782)

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Query Match	4.35;	Score 77.4;	DB 2;	Length 1511;
Best Local Similarity	49.8%;	Pred. No. 9.5e-06;		
Matches 341;	Conservative 0;	Mismatches 326;	Indels 18;	Gaps 5;

### RESULT 3

; Sequence 8, Application US/08544332  
 ; Patent No. 5935777  
 ; GENERAL INFORMATION:



ADDRESS: Gerard H. Bencen  
STREET: 2421 N.W. 41st Street, Suite A-1  
CITY: Gainesville  
STATE: FL

COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/544,332

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;  
; FILING DATE:  
; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/991,867  
;

;  
FILING DATE: 07-DEC-1992  
;  
PRIOR APPLICATION DATA:  
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APPLICATION NUMBER: US 0  
FILING DATE: 19-AUG-1993

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 9

FILING DATE: 12-FEB-1992  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/827,685  
FILING DATE: 30-JAN-1992

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/657,584

FILING DATE: 19-FEB-1991  
ATTORNEY/AGENT INFORMATION:

NAME: Bencen, Gerard H.  
REGISTRATION NUMBER: 35.746

TELECOMMUNICATION INFORMATION:

TELEPHONE: 904-375-8100  
TELEFAX: 904-372-5800

1. ELEMENTARY. 304-2/2-000  
2. INFORMATION FOR SEQ ID NO: 8:  
3. SEQUENCE CHARACTERISTICS:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1511 base pairs  
TYPE: nuclear acid

STRANDEDNESS: double  
TOPOLOGY: unbranched

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; 10POLYDGI: UNKNOWN
MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:

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ORIGINAL SOURCE: ORGANISM: Amsacta moorei entemopoxvirus ;  
REMARKS:

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; FEATURE:
; NAME/KEY: CDS
; LOCATION: 32010000 (10 319)

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; LOCATION: complement (10...210)
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FEATURE:
NAME/REV: CDS

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NAME/KEY:  CBS
LOCATION:    complement (234..782
PROTID:

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US-08-544-332-8



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Qy	152	aaattaaagctttatccatttttttttaacggaatccaacgcgacataactctgtc	211
Db	1248	ATATTTAATATTTTAAATTTTAAATTTACTAAATTTAATTAATAATTAATTAATTAATTC	1189
Qy	212	agattatccaagtcggtatcttttctaatattctctaanaatatattgaattgc	271
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Qy	272	tttccataactaaattttacattttt-fatacaactttttaaacttactcttaac	330
Db	1128	TTTTGTTTAAAGATATATCTAAATATGTTATATTTTATTTTATTTGTTAATTAAT	1069
Qy	331	ttatagcttttttttttttagtcctaatataaactatcctgaatttattgaat	390
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Qy	391	ttttataacttagtactaaaaacacaaatc---tttccattctcaagaaaatc	446
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Qy	447	attttttaaanaaattgatttttatagataacttgc-----tgcataatgaatta	500
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Qy	501	acttgatttgaaggaacaaatgaaanaactgttagaaaaaattctgtatcac	560
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Qy	561	agctattatgaacttcgcttgatcaaatatattgcattgttcgacgagcttgagca	620
Db	828	ATTGATTT-----AATTTTTCGAAAAATATATCAAAATATAAAAAAATTCGAT	774
Qy	621	gacagaatca---ggttcaactctgattctaaaccacaagccgagacgttaaacataa	678
Db	773	GAAATTAATTAATGCTCTATGTTTTCGCGAAAAACAGATGATGACGAAAAATTAAT	714
Qy	679	gtaagtaatgattctatcgaatagacactaacgcgcgataatcctcgatgaattag	738
Db	713	AGATATATTTTATCTTAATCAAAAAATGTGTATTTATTAATCATATATATATATGATTT	654
Qy	739	gcccaaaagataattcttctatcg	763
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RESULT 4
US-07-867-106-2
; Sequence 2, Application US/07867106
; Patent No. 5389526
; GENERAL INFORMATION:
; APPLICANT: Slade, Martin B
; APPLICANT: Chang, Andy C M
; APPLICANT: Williams, Keith L
; TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
; TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
; NUMBER OF SEQUENCES: 19

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CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526f1s  
STREET: One Liberty Place 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/867,106  
FILING DATE: 19920625  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: AU PJ 7187  
APPLICATION NUMBER: PCT/AU90/00530  
FILING DATE: 02-NOV-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Feeney, Joanne Longo  
REGISTRATION NUMBER: 35,134  
REFERENCE/DOCKET NUMBER: RICE-0002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-568-3100  
TELEFAX: 215-568-3439  
INFORMATION FOR SEQ ID NO.: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5852 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2378..5038  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2378..5038  
US-07-867-106-2

[illegible]



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us-08-913-430-1.mli

11

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6243 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 3770..4013
; OTHER INFORMATION: /note="RP4 origin of DNA transfer (oriT) from
; OTHER INFORMATION: plasmid RP4"
US-09-056-075-1
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Query Match      4.1%; Score 72.6; DB 4; Length 6243;
Best Local Similarity 46.7%; Pred. No. 7e-05;
Matches 266; Conservative 0; Mismatches 299; Indels 4; Gaps 1;
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Qy 64 ctccattgcgcagaattttaagaattagacattaagaagtagaacaagtatta 123
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Db 1418 AACTTTGAAAAATTTTATATATATATATCTTGAAGAAAGATATATAAATGA 1477

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Db 1594 TTTATTTTCTTAATACATTTAATTCCTTTTCTTCTTCTTAATTCCTTTT 1653

Qy 304 acaaatltttaaataactcttaattacagcatttttttttttttttttttt 363
    | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1654 AATTGCTCTTAATATTTTTCCTTAATTTTCTTCTTCTTAATTTCTTCTTTTA 1713

Qy 364 taaaattctgaatttattgaatttataatttagtaacaaatacaaatatt 423
    | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1714 GAATATTATATGATATATTTTGTCTCTCTGTAATTTCTTAATAGCTAATGA 1773

Qy 424 ttctccattcctaagaanaattttttaaanaaattgattttatagataattg 483
    | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1774 GTTCACTTCTTAATCTTAATTTTCTTAATCTTAATCTTAATCTTAATCTTA 1833

Qy 484 ttgtataatgaattactgatttgaaggaacaataatgaanaaattgcttagaaa 543
    | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1834 GTTGCTTTAATACCTTCTTTCATTAATGTTGCTTAACATATATTAAGTTCTAAA 1893

Qy 544 aaattctgtatcatcagctatttatgc 572
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Db 1894 ACATCATTTAATGCTTCTCAATCTCTC 1922
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RESULT 7

Nov 23 14:57

us-08-913-430-1.mli

12

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US-08-451-405A-2
; Sequence 2, Application US/08451405A
; Patent No. 5736358
; GENERAL INFORMATION:
; APPLICANT: FASEL, NICOLAS JOSEPH
; TITLE OF INVENTION: DICTYOSTELID EXPRESSION VECTOR AND
; TITLE OF INVENTION: METHOD FOR EXPRESSING A DESIRED PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESS: THE WEBB LAW FIRM
; STREET: 700 KOPPERS BUILDING, 436 SEVENTH AVENUE
; CITY: PITTSBURGH
; STATE: PENNSYLVANIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 15219-1818
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" FLOPPY DISK
; COMPUTER: Midwest Micro 486-50
; OPERATING SYSTEM: DOS
; SOFTWARE: WORDPERFECT 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/451,405A
; FILING DATE: 26-MAY-1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 07/965,273
; FILING DATE: 15-JAN-1993
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 731
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: UNKNOWN
US-08-451-405A-2
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Query Match      4.0%; Score 71; DB 2; Length 731;
Best Local Similarity 50.3%; Pred. No. 0.00011;
Matches 228; Conservative 0; Mismatches 220; Indels 5; Gaps 2;
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Qy 48 attaaattcattcttcatttcgcccgaatttttaagaattagcatttaaaagt 107
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Db 209 ATGATTAAGAAATCTTAATAAATAAATTCAGATTAATTTTCATTCGAACACAAACAA 268

Qy 108 agacaagaagttaattgaacattagcgcaccccttaagaanaaattaaagtta 167
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Db 269 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 328

Qy 168 tcatattttttacgaatccaaccagcacaatcttgcagattatcaagtcg 227
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Db 329 AAAAAAGCTATTAAGAAATTTTAAATATATTATTAATCTTAATTTTATGCGAAAC 388

Qy 228 gtaattttcattctctactaaatatttgaatttgcatttccataactaaac 287
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Db 389 ACACCTTTTAACACAGT-----CTATTAATCTTAAGAAAGTTTAAATTTTATTTTAT 444

Qy 288 ttacatttttttataacaatttttaaaattactcttaattatagattttttat 347
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Db 445 TTAATATATATTTTAAATAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAAT 504

Qy 348 ttcttagctaaattataaaattactgaatttattgaatttttaattagttact 407
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Db 505 CATCAACCCCTTAATCAACAAATACATTTATTTATTTATTTATTTATATCAT 564
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Nov 23 14:57

us-08-913-430-1.mi

19

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/ FILING DATE: 30-JAN-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/657,584
/ FILING DATE: 19-FEB-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Bence, Gerard H.
/ REGISTRATION NUMBER: 35,746
/ REFERENCE/DOCKET NUMBER: UFI14.C4
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 904-375-8100
/ TELEFAX: 904-372-5800
/ INFORMATION FOR SEQ ID NO: 32:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 660 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: unknown
/ MOLECULE TYPE: DNA (genomic)
/ US-08-544-332-32
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Query Match          3.7%; Score 66; DB 4; Length 660;
Best Local Similarity 51.2%; Pred. No. 0.00076;
Matches 205; Conservative 0; Mismatches 190; Indels 5; Gaps 2;
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Qy 92 tagtacttaaaagtagaacaagaatttaacgtaacatagcgcaatccttaaga 151
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Db 457 TATTTAACCTCACTACTACTATAGAAAACATTATTAAAGTACCAATTTATTAG 398

Qy 152 aaaaataaagtttctatctatcttttaacgaaatccacacgacataatcttgc 211
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Db 397 ATATTATTATTATTATTAAATTCTAATATTATTAAATTATAGCATTTATATAC 338

Qy 212 agtatttcaagtcggtcatttttccattatctctactaaatcattgaattgcac 271
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Db 337 ATGATTCAAAATTAAAAATCTATGAAATGCTGATATATTACTTATATGCTAT 278

Qy 272 ttccataatcaaatcttcatctttt-tataacaattttaaactcttcaat 330
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Db 277 TTTTGTATAGATATATCTAAATATGTTATTTTATTTTGTATATAATTTAAAT 218

Qy 331 ttataagattttttatctttttagtctaataataataatcctgaattttgaat 390
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Db 217 TAAATATATTAAATTGAAATATATAAACTTTAAATTTTCTGCAATATATTAAAA 158

Qy 391 ttctataatttagtactaaaatacaaatat-cttccattctagaanaaatc 446
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Db 157 TATTATATATCAATATATATATATGCAATCTCTAAATTAACTAATTTTAAATAT 98

Qy 447 attttttaaataaattgattttatagataaattggtt 486
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Db 97 TAATATTAAATACATTATCTCTTTATTATTATTTT 58
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RESULT 13
US-09-056-075-1/c.
/ Sequence 1, Application US/09056075
/ Patent No. 5953368
/ GENERAL INFORMATION:
/ APPLICANT: Johnson, Eric A.
/ APPLICANT: Bradshaw, Marile
/ APPLICANT: Rood, Julian
/ TITLE OF INVENTION: Expression System for Clostridium
/ TITLE OF INVENTION: Species
```

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us-08-913-430-1.mi

20

```
/ NUMBER OF SEQUENCES: 2
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Quarles & Brady
/ STREET: 1 South Pinckney Street
/ CITY: Madison
/ STATE: WI
/ COUNTRY: US
/ ZIP: 53701-2113
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/056,075
/ FILING DATE:
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Seay, Nicholas J.
/ REGISTRATION NUMBER: 27386
/ REFERENCE/DOCKET NUMBER: 960296.95238
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 608-251-5000
/ TELEFAX: 608-251-9166
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 6243 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 3770..4013
/ OTHER INFORMATION: /note= "Rp4 origin of DNA transfer (oriT) from
/ OTHER INFORMATION: plasmid Rp4"
US-09-056-075-1
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Query Match          3.6%; Score 64.6; DB 4; Length 6243;
Best Local Similarity 49.3%; Pred. No. 0.0016;
Matches 169; Conservative 0; Mismatches 174; Indels 0; Gaps 0;
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Qy 93 agtacttaaaagtagaacaagaatttaacgtaacatagcgcaatccttaaga 152
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Db 1542 AGTACCAATTAATAATTAACGATATTAAGTATATGAAAAAATGGCTTTTATA 1483

Qy 153 aaattaagaatttctatctatctttttaaactgaatccacacgacataatccttgc 212
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Db 1482 AAGCGTATTTTATATCTTTCTTCTTAAGATATATATATATAAAAAATTTTTC 1423

Qy 213 gtaattcaagtcggtcatttttccattatctctactaaatattgtaattgcatt 272
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Db 1422 AACCTTAATAAAAAATATTTTATATTTTATTTTATTTTATTTTATTTTATTT 1363

Qy 273 ttccataatcaaatcttcatctttttttaaacaattttaaacttcaatt 332
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Db 1362 TTTTATTATTATATTTTATTATTTTATATTTTATATTTTATATTTTATTTT 1303

Qy 333 atagattttttatctttttagcctaataataataatcctgaattttattgaatt 392
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Db 1302 TATTTTATATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 1243

Qy 393 ttataattagactcaaaaatacaaatatttttccattct 435
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21

22

[illegible]

RESULT 15  
 US-07-991-867B-1/c  
 : Sequence 1, Application US/07991867B  
 : Patent No. 5476781  
 :  
 : GENERAL INFORMATION:  
 :  
 : APPLICANT: Moyer, Richard W.  
 : APPLICANT: Hall, Richard L.  
 : APPLICANT: Gruidl, Michael E.  
 : TITLE OF INVENTION: No. 5476781 Entomopoxviruses  
 : NUMBER OF SEQUENCES: 66  
 :  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSSEE: David R. Sallwanchik  
 : STREET: 2421 N.W. 41st Street, Suite A-1  
 : CITY: Gainesville  
 : STATE: FL  
 : COUNTRY: USA  
 : ZIP: 32606  
 :  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: PatentIn Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/07/991, 867B  
 : FILING DATE: 12-DEC-1992  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: No 92/14818  
 : FILING DATE: 12-FEB-1992

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us-08-913-430-1.mi

23

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827, 685
FILING DATE: 30-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657, 584
FILING DATE: 19-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UFI14.C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 8457 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Amsacta moorei entomopoxvirus
FEATURE:
NAME/KEY: CDS
LOCATION: complement (65..1459)
FEATURE:
NAME/KEY: CDS
LOCATION: 1474..2151
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LOCATION: complement (6277..6768)
US-07-991-867B-1

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Best Local Similarity 48.2%; Pred. No. 0.0031;
Matches 206; Conservative 0; Mismatches 220; Indels 1; Gaps 1;
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Qy 179 taatgaatccaccagcataatccttgatattatcaagtgcgtattttca 238
Db 563 TGATATGACTTAAAGCCATADA-CAGTACAAATGACTCTTAATACATAATGCTT 505
Qy 239 ttatttcacaaatattattgaattgatttcataatcctaaattttacattt 298
Db 504 ATTAAACATTGATGTAATCAAGATTAATTAATTAATTAATTAATTAATTAAT 445
Qy 299 ttataacaatttttaaaattactcttaattatagatattttttatagctca 358
Db 444 ACTTTTAAATACGTTTGAATTACAAATGATGATCCGATGTCGATGTTAATATA 385
Qy 359 aattataaattatcttgaatttattgaattttataattagttactcaaaaatacaa 418

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24

Db 384 TATTTTATATATATATATAGTTTATTTCAACATTAATCTMAATTTGAATTAATAATTAAT 325
Qy 419 atatttttctatctcaagaaaatcattcttttaaaaaaattgattttatagctca 478
Db 324 ATTATTCATGAGTTTATTGCTGATTTATGCTAGTATATAGAGTGCATTAATTA 265
Qy 479 atttggtatgaattgaattgaattgattgaaaggaacaaatgaaaaaatgctta 538
Db 264 TTCTAATATGATTAATTAATGATTAATGATTAATTAATTAATTAATTAATTA 205
Qy 539 gaaaaa 545
Db 204 TAAAAA 198

Search completed: November 20, 1999, 00:02:31
Job time: 2518 sec

Nov 23 14:57

us-08-913-430-1.mmp

1

GenCore version 4.5  
Copyright (c) 1993 - 1998 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 19, 1999, 23:06:31 ; Search time 450.03 Seconds

(without alignments)  
12182.104 Million cell updates/sec

Title: US-08-913-430-1

Perfect score: 1782

Sequence: 1 atgaaaaaatgccactata.....ttgataatcctgatgcctaa 1782

Scoring table: IDENTITY\_NUC

Searched: 4116993 seqs, 1538246968 residues

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	97.4	5.5	448	US-60-141-136-611	Sequence 611, App
4	95.4	5.4	17034	US-60-144-351-1275	Sequence 1275, App
5	93.2	5.2	501	US-60-141-134-4006	Sequence 4006, App
6	92.6	5.2	470	US-60-145-485-8111	Sequence 8111, App
7	92.2	5.2	510	US-60-144-084-39263	Sequence 39263, App
8	92	5.2	837	US-08-998-416-288	Sequence 288, App
9	91.8	5.2	25821	US-60-161-932-409	Sequence 409, App
10	91.6	5.1	1431	US-60-126-265-4175	Sequence 4175, App



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Qy 901 actgcgttaatacattgctgataaagaattccgattgctgctatgacgactaatt 960
    |||
Db 901 actgcgttaatacattgctgataaagaattccgattgctgctatgacgactaatt 960
Qy 961 actggaatcgtataatgattgattgttcttcttgatatagaagaattggtgaatta 1020
    |||
Db 961 actggaatcgtataatgattgattgttcttcttgatatagaagaattggtgaatta 1020
Qy 1021 caaggtcttctacttgcgcggtctctattagaagaagaagtggtcttttgatcaatt 1080
    |||
Db 1021 caaggtcttctacttgcgcggtctctattagaagaagaagtggtcttttgatcaatt 1080
Qy 1081 gatcaaatgaaatgaaatcctaataacatctgccccagagacacattctttttatca 1140
    |||
Db 1081 gatcaaatgaaatgaaatcctaataacatctgccccagagacacattctttttatca 1140
Qy 1141 atcgcgggttcccaagatgataatataatcccaatattttataatggtgcaatgaagta 1200
    |||
Db 1141 atcgcgggttcccaagatgataatataatcccaatattttataatggtgcaatgaagta 1200
Qy 1201 ctttaagaatgaaatgaaatcgcgaataataatgattatctcccgaaagcgaa 1260
    |||
Db 1201 ctttaagaatgaaatgaaatcgcgaataataatgattatctcccgaaagcgaa 1260
Qy 1261 aatgctgttattgtcccgagatgaattatgaaactgcccgttcaagaatccatcttt 1320
    |||
Db 1261 aatgctgttattgtcccgagatgaattatgaaactgcccgttcaagaatccatcttt 1320
Qy 1321 ctaagaatgaaatgaaatcgcgaagtgatgataaataagctgttgcgtcaaaaca 1380
    |||
Db 1321 ctaagaatgaaatgaaatcgcgaagtgatgataaataagctgttgcgtcaaaaca 1380
Qy 1381 gctctatttccaaagattcttgcgccaaatgataagatgagccgaagaacacacc 1440
    |||
Db 1381 gctctatttccaaagattcttgcgccaaatgataagatgagccgaagaacacacc 1440
Qy 1441 aaattaaacttgaaggttctgatacccaaaaactcttgcgaactcgtaagattataat 1500
    |||
Db 1441 aaattaaacttgaaggttctgatacccaaaaactcttgcgaactcgtaagattataat 1500
Qy 1501 gataaagccaaacttctatcaagaagcgatcaaatatgacaattataaactgatt 1560
    |||
Db 1501 gataaagccaaacttctatcaagaagcgatcaaatatgacaattataaactgatt 1560
Qy 1561 aaagtttaggaagaagtgctggttgaagttcttcggttttaattgcaagaagaataaa 1620
    |||
Db 1561 aaagtttaggaagaagtgctggttgaagttcttcggttttaattgcaagaagaataaa 1620
Qy 1621 gcatctagatcagaagtcgaaagaacgaactaaagcaaaactaccatatttcatttaa 1680
    |||
Db 1621 gcatctagatcagaagtcgaaagaacgaactaaagcaaaactaccatatttcatttaa 1680
Qy 1681 tatgataatacaacatataaagtatacaaggtaaaaattatatacaatttttagtaagcca 1740
    |||
Db 1681 tatgataatacaacatataaagtatacaaggtaaaaattatatacaatttttagtaagcca 1740
Qy 1741 gtaattgttacaagaagctaatggtgataatccctgattgacctaa 1782
    |||
Db 1741 gtaattgttacaagaagctaatggtgataatccctgattgacctaa 1782
```

RESULT 2  
US-08-183-774-2  
; Sequence 2, Application US/08183774

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/ GENERAL INFORMATION:
/ APPLICANT: SETO, Yasuhiko
/ APPLICANT: FUTO, Satoshi
/ APPLICANT: MITSUSE, Shizuo
/ APPLICANT: MATSUI, Kanako
/ APPLICANT: TSUNA, Mika
/ TITLE OF INVENTION: DNA's Encoding Surface Antigen of
/ TITLE OF INVENTION: Mycoplasma hyopneumoniae, DNA Fragments for Primer,
/ TITLE OF INVENTION: Recombinant Antigenic Peptides and Diagnostic Method of
/ NUMBER OF SEQUENCES: 18
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
/ ADDRESSEE: P.C.
/ STREET: 1755 Jefferson Davis Highway, Fourth Floor
/ CITY: Arlington
/ STATE: Virginia
/ ZIP: 22202
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/183,774
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/747,015
/ FILING DATE: 19-AUG-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Oblon, Norman F.
/ REGISTRATION NUMBER: 24,618
/ REFERENCE/DOCKET NUMBER: 4183-001-0
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (703)521-4500
/ TELEFAX: (703)486-2347
/ TELEX: 248855 OPAT UR
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1260 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ ORIGINAL SOURCE:
/ ORGANISM: Mycoplasma hyopneumoniae
/ STRAIN: J
/ US-08-183-774-2

Query Match 69.9%; Score 1245.6; DB 7; Length 1260;
Best Local Similarity 99.3%; Pred. No. 9.2e-215;
Matches 1251; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 523 atgaaaaaagtctgagaaaaaattcttgatatacagctattatgaaactcgctt 582
    |||
Db 1 ATGAAAAAATGCTTAGAAAAAATTCTGTATCATCAGCTATTATGCACTTCGCTT 60
Qy 583 gcatcaattatgcatctgttgcagcaggttctgacagacagaatcaggttaactct 642
    |||
Db 61 GCATCAATATTGCAATTTTGTTCACACAGGTTTGACAGACAGAAATCAGGTGCTTCA 120
Qy 643 gatctaaaccagacgcgagacgctaaacataaagtaagtaagatgattctatcgata 702
```







Query Match	5.4%;	Score 95.4;	DB 80;	Length 17034;
Best Local Similarity	46.6%;	Pred. No. 8.7e-08;		
Matches 244;	Conservative 0;	Mismatches 268;	Indels 12;	Gaps 1

RESULT 5  
US-60-141-134-4006  
; Sequence 4006, Application US/60141134  
; GENERAL INFORMATION:

Query Match	5.2%;	Score 93.2;	DB 80;	Length 501;
Best local Similarity	51.9%;	Pred. No. 1e-07;		
Matches 25;	Conservative	0;	Mismatches 234;	Indels 5;
				Gaps 2;

RESULT 6  
US-60-145-485-8111/c  
; Sequence 8111, Application US/60145485  
; GENERAL INFORMATION:

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```
; APPLICANT: Cheikh, Nordine
; APPLICANT: Deng, Mollan
; APPLICANT: Fisher, Dane K.
; APPLICANT: Miller, Philip W.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 38-21(51229)A
; CURRENT APPLICATION NUMBER: US/60/145,485
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 9366
; SEQ ID NO 8111
; LENGTH: 470
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: LIB3150-100-P2-K1-F7
US-60-145-485-8111
```

```
Query Match          5.2%; Score 92.6; DB 81; Length 470;
Best Local Similarity 52.5%; Pred. No. 1.3e-07;
Matches 228; Conservative 0; Mismatches 200; Indels 6; Gaps 1;
```

```
Qy 155 attaaagttttatctatctatttttaacgaatccaacagcacaatcttgcagt 214
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 469 ATTAAATATTATTATTATTATTATTATTATTATTATTATTAAAGTAAAGTAAAGTAAATTTAAATTT 410

Qy 215 attatcaagtcggtatttttctattctacta-----aaattatttgattg 268
    || ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Db 409 ATAGTTAAAGATATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAA 350

Qy 269 catttccaatcaatcaatcttctacttcttctacttctacttctacttct 328
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 349 AATTATTTAAATTAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAA 290

Qy 329 attatagatcttctattcttcttcttcttcttcttcttcttcttcttct 388
    || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 289 AATTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAA 230

Qy 389 atttttaatttgaactaaataacaaatcttctctacttctctacttctct 448
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 229 ATTTTATTTATTAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAA 170

Qy 449 ttlttaaaaaaattgattttatagtaataattggttataaattgaattgatt 508
    || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 169 TTAATTATTAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTT 110

Qy 509 tgaagaggcaaaatgaaaaaattgcttgaagaaaaaattctgatactcagcatt 568
    || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 109 TAAATTATTAATTAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAA 50

Qy 569 atgcaactgcgt 582
    ||||| ||
Db 49 TCCACCTTTATTT 36
```

RESULT 7

```
US-60-144-084-39263/c
; Sequence 39263, Application US/60144084
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S.
; APPLICANT: Buehler, Robert E.
; APPLICANT: Byrum, Joseph R.
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; APPLICANT: Coombs, Brian E.
; APPLICANT: Heck, Gregory R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Nelson, Donald E.
; APPLICANT: Shukla, Hridayabhiramjan
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 38-21(15444)B
; CURRENT APPLICATION NUMBER: US/60/144,084
; CURRENT FILING DATE: 1999-07-16
; NUMBER OF SEQ ID NOS: 47776
; SEQ ID NO 39263
; LENGTH: 510
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3051-097-Q1-K1-E1
US-60-144-084-39263
```

```
Query Match          5.2%; Score 92.2; DB 80; Length 510;
Best Local Similarity 49.9%; Pred. No. 1.5e-07;
Matches 232; Conservative 0; Mismatches 233; Indels 0; Gaps 0;
```

```
Qy 45 ataattaattacatttcttctacttgcgcagaatttttaagaattagtaataa 104
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 486 ATATCATATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATT 427

Qy 105 agtgaacaagaattatcaatgaatcagcgaactccttaagaataaattgaat 164
    || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 426 TTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 367

Qy 165 ttatctatttttttaacgaatccaacagcacaatcttgcagattatcaag 224
    ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 366 TTAATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 307

Qy 225 tcggtatttttcaattcttctactaaatatttgaatttgcatttccataacta 284
    || ||||| ||||| ||||| ||||| ||||| |||||
Db 306 TTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 247

Qy 285 aaatttcaatttttttaacaaatcttcttcttcttcttcttcttcttcttct 344
    ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 246 TATTTTCTTTAAATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 187

Qy 345 tatttttgcttcaattatcaaatcttgaatttgaatttgaatttgaatttga 404
    ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 186 TTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 127

Qy 405 actaaataacaaatatttcttctacttcaagaataattcttcttcttcttct 464
    ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 126 TTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 67

Qy 465 attttatagtaatttgcgttataaattgaattgaattgatt 509
    ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 66 TTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 22
```

RESULT 8

```
US-08-998-416-288
; Sequence 288, Application US/08998416
; GENERAL INFORMATION:
; APPLICANT: Phillipson, Peter
; APPLICANT: Pohlmann, Rainer
```

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APPLICANT: Steiner, Sabine  
 APPLICANT: Mohr, Christine  
 APPLICANT: Wendland, Jürgen  
 APPLICANT: Knechtel, Philipp  
 APPLICANT: Reibschung, Corinne  
 TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSYPII  
 TITLE OF INVENTION: AND USES THEREOF  
 NUMBER OF SEQUENCES: 1152  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Novartis Corporation  
 STREET: 3054 Cornwallis Road  
 CITY: Research Triangle Park  
 STATE: North Carolina  
 COUNTRY: USA  
 ZIP: 27709  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/998,416  
 FILING DATE: 24-DEC-1997  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: CH 0016/97  
 FILING DATE: 31-DEC-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Meigs, J. Timothy  
 REGISTRATION NUMBER: 38,241  
 REFERENCE/DOCKET NUMBER: PF/5-30306/A/GC1976  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 919-541-8587  
 TELEFAX: 919-541-8689  
 INFORMATION FOR SEQ ID NO: 288:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 837 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: Linear  
 MOLECULE TYPE: DNA (genomic)  
 ORIGINAL SOURCE:  
 ORGANISM: PAB1241RP

Query Match	5.2%;	Score 92;	DB 33;	Length 837;
Best Local Similarity	48.9%;	Pred. No. 1.8e-07;		
Matches 305; Conservative	0;	Mismatches 315;	Indels 4;	Gaps 2

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Db	201	ATATGATATCTATTTAGCTATGCTGCAAAATTTTAAATTAATTAATTAATTAATTAATTAAT	260
Qy	318	attactcttaattacatagatattttttatttttttagtccaattataaattacttga	377
Db	261	ATTATTAATTTTCTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTT	317
Qy	378	atttatttgaatttttaattgaattgaactaaataacaaatattttccattca	437
Db	318	ATTATATGTTTATTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT	377
Qy	438	gaaataatcatttttttaaaaaaatgatttttaagtataattgtttgataatga	497
Db	378	TCTAATATTTTATTTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	437
Qy	498	ttaacttgatttgaaggagacaaaatgaaaaaatgcctagaaaaaatcttgatc	557
Db	438	TTTATCTTTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	497
Qy	558	atcagctattatgaactcgcttgcatacatcttgcatttggtcagcaggttg	617
Db	498	ATTTTATTAATTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTT	557
Qy	618	acagacagatcaggttcaacttgcattctaacaacagcgagacgtaaaacata	677
Db	558	AATTAATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	617
Qy	678	agtaagtaatgattctatccgat	701
Db	618	AGTTAAATTAATCTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT	641

```

RESULT          9
; Sequence 409, Application US/60161932
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; TITLE OF INVENTION: The Drosophila Genome, Primary Nucleic
; TITLE OF INVENTION: Acid Sequences, Systems Contain the Nucleic Acid Sequences
; TITLE OF INVENTION: and Uses Thereof
; FILE REFERENCE: C1000122
; CURRENT APPLICATION NUMBER: US/60/161,932
; CURRENT FILING DATE: 1999-10-28
; NUMBER OF SEQ ID NOS: 2626
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 409
; LENGTH: 25821
; TYPE: DNA
; ORGANISM: Drosophila
US-60-161-932-409

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Query Match	5.2%	Score 91.8;	DB 88;	Length 25821;
Best Local Similarity	54.3%;	Pred. No. 4.2e-07;		
Matches 208;	Conservative 0;	Mismatches 112;	Indels 3;	Gaps 1;
Qy 163	ttttatctatcttttttthaacgaacacacacgcagataaccttgcaglatatca	222		
Db 94	tattattattattattattattattattattattattattattattattattatt	153		
Qy 223	agtcgcatcttttcattatcttactacaatatattggaattgcatttccaatc	282		
Db 154	attattattattattattattattattattattattattattattattattatt	213		
Qy 283	ttaaatcttaacatttttttaacaacattttaaaatcccttaattatgatttt	342		

[illegible]

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RESULT 10
US-60-126-265-4175/c
; Sequence 4175, Application US/60126265
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Timberlake, William E.
; TITLE OF INVENTION: Aspergillus nidulans Genome Sequence And Uses Thereof
; FILE REFERENCE: 04983.0117/38-21(15484)A
; CURRENT APPLICATION NUMBER: US/60/126,265
; CURRENT FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 4221
; SEQ ID NO 4175
; LENGTH: 1431
; TYPE: DNA
; ORGANISM: Aspergillus nidulans
; FEATURE:
; OTHER INFORMATION: unsure at all n locations
US-60-126-265-4175

```

Query Match	5.1%;	Score 91.6;	DB 77;	Length 1431;
Best Local Similarity	49.3%;	Pred. No. 2.4e-07;		
Matches 226; Conservative	0;	Mismatches 232;	Indels 0;	Gaps 0;

Oy 146 taagaaaaataaaagtcttcacattttttaaagaactccaccaggatbaaac 205  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 853 TAAATTAATAATTAAATTTTAAATTTTTTTTTTAATAAATTAATTCACAAAATA 794

Oy 206 ttgtcagatttaacaagcggtcttttcatttcctaactcaaatatitgaat 265  
|| | || | || | || | || | || | || | || | || | || | || | || | || | || |  
Db 793 TTTTATTAATTAATTTAAATTTAAATTTTAATAATTTTAATAATTAATTAATTTGA 734

Oy 266 ttgattttccaactcaaaatttgactttttaaaaacttttaaaactgcct 325  
|| | || | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 733 TAATAATTATTAATAATTAATAATAATTAATAATTTAATAATTTAAATTTAAAT 614

Oy 326 ttaatttatgaatttttatttttagtccaactaaatatcttgaatttat 385  
|||| | ||| | || | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 673 ATATAATTATTAAATTTANTTTAAATAAAATTTTAATTTTAATTTTAAATTTTAA 614

Oy 386 tgaattttatatttagtactaaaatacaaatatttttccactcagaanaat 445  
|| | ||| || | || | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 613 TAAAAAATTTTAAATTAATAATTTAAATTTTAAATTTTAAATTTTAAATTTTAAATNT 554

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Oy 446 catttttcaaaaaaatgatttttcagacaaatgttggttgcgaatgcaatcactg 505  
Db 553 atttatataatttaamntttttaatatataatttatataatttatataatttatata 494

Oy 506 atttgaagaaggacaanaatcgaaaanaatgcttagaaaaaatcttgatcatcagcta 565  
Db 493 tttaatttatataatttatataatttatataatttatataatttttttttatataatttatata 434

Oy 566 ttatagcaacttcgcttgccaatattgatcttgtt 603  
Db 433 tatataatttccacattatantaaatanTTTTTTTTTTT 396

```

RESULT 11
US-09-404-520-12953/c
; Sequence 12953, Application US/09404520
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Ghodasi, Azita
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: McIninch, James
; APPLICANT: Timberlake, William E.
; APPLICANT: Yu, Jaehyuk
; TITLE OF INVENTION: Emicella nidulans Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-10(15498) A
; CURRENT APPLICATION NUMBER: US/09/404,520
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 44345
; SEQ ID NO 12953
; LENGTH: 720
; TYPE: DNA
; ORGANISM: Aspergillus nidulans
; FEATURE:
; OTHER INFORMATION: unsure at all n locations
US-09-404-520-12953

```

Query Match	5.1%;	Score 91.4;	DB 52;	Length 720;
Best Local Similarity	51.9%;	Pred. No. 2.3e-07;		
Matches 223; Conservative	0;	Mismatches 206;	Indels 1;	Gaps 1;

Qy	61	ttctctattg	gcgcgaatttt	taagatt	tagcaatt	aaagtaagaacaaagta	120
Db	467	ttctctattg	ttttaaattttat	tttctta	ttatpaaann	ttttaaattttttt	408
Qy	121	ttaatg	taacattgcgcac	ctct	taagaaaat	taaaagttat	180
Db	407	tttat	ttatpaaann	ttat	ttatpaaann	ttatpaaann	348
Qy	181	atcgaa	atccacacg	cataa	cttgcag	tattcaacagtcg	240
Db	347	ttttat	tttttttttttt	tttttttt	ttat	tttttttttttt	288
Qy	241	attct	actaaat	attg	attgc	atttccat	300
Db	287	att	taatt	taata	tatttttttttt	tttttttttt	228
Qy	301	tata	caattt	taaaat	act	cttca	360
Db	227	att	tttttttt	attatt	tttttttt	tttttttt	168
Qy	361	tata	aaatt	cttga	atttattg	actaaat	420
Db	168	tttt	ttatt	ttatt	ttatt	tttttttttt	109



